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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant : Samuel I. Miller

Art Unit : 1641

FEB 23 2001

Serial No. : 09/068,804

Examiner : P. Baskar

Filed : May 14, 1998

Title : SALMONELLA SECRETED PROTEINS AND USES THEREOF

TECH CENTER 1600/2900

Commissioner for Patents  
Washington, D.C. 20231

RESPONSE

In response to the action mailed August 16, 2000, please amend the application as follows:

In the Claims:

101 17. (Amended) A method of inducing uptake of a bacterial cell by an epithelial cell in a mammal, comprising increasing expression of the [DNA] nucleic acid molecule of claim 46 or 52 in said bacterial cell and administering said bacterial cell to said mammal.

REMARKS

The presently claimed invention features nucleic acid molecules related to the *S. typhimurium* sspB, sspC, sspD, and sspA genes. These genes are important for mediating the uptake of *S. typhimurium* by epithelial cells. The claimed nucleic acid molecules and the proteins they encode are useful for the detection of *S. typhimurium*. They are also useful for producing vaccines.

Claims 17-18 and 46-86 are pending. Claim 17 has been amended. No new matter is added by the amendment.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

February 16, 2001

Date of Deposit

Signature

*Darlene J. Morin*

Darlene J. Morin

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